

FIG. 1A

ade2Δ ade3Δ mec1-1 sml1-1 {pRS416-ADE3-MEC1}

Transform genomic library

plasmid containing *SML1*



plasmid containing other genes

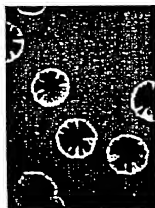
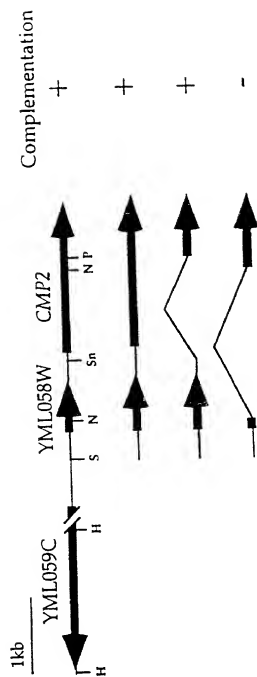


FIG. 1B



AAATAGCAACCGGTGTCACAAGAGTGTCAAGACCGGTACTTATTCCCAAGGATCACTTCCCTCTCTGCCACACATCATTC
CCGTCGAACGTCGCGGGCTCTTCTGACATTGGTAAAGTAATCTTCCAACTAAGACATGCTTCTCTTTTCTTTTCTTTT
GTAGSCCAATGATAGGAAGAACAAATAGATTAAATACGTCAGAATAAGTAGATAATGTTTTTATGTTTAGACCTCGTA
CATAGGAATAATTGACGTTTTTTTTTGGCCAAACATTGAAATTTTTTTGTACCTCGGCTGAGCCCAACGGGCTCC
ACTACCCCGCGGGTCGCCATTTTGGGAAGTCATCCGTCCTCCAAAAGGAAATAGCCATAACATATCGTTACTGTTTTGGA
ACATGCCCGCTTTTCGCCGATTCGCCCTCAGCGGGTATAAAAAAGAGATCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
CAATTTTAAATGCTTATCTGCTCTCTTGATGATCTTACGGTCTCACTAACCTCTCTTCAACTGCTCAATAAATTTTCCCGCT

[illegible]

FIG. 2A

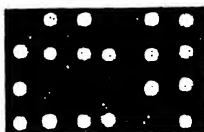
mec1Δ/+ smt1Δ/+

FIG. 2B

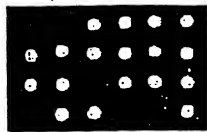
mec1Δ/+ smt1Δ/+ dun1Δ/+

FIG. 2C

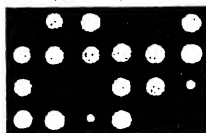
mec1Δ/+ smt1Δ/+ tel1Δ/+

FIG. 2D

rad53Δ/+ smt1Δ/+

FIG. 3A

sml1 Δ

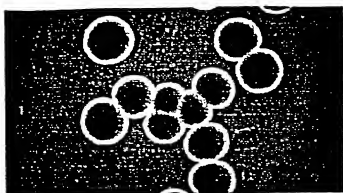


FIG. 3B

SML1

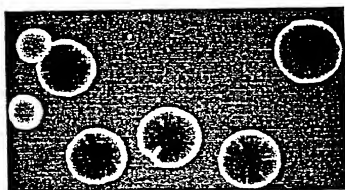


FIG. 3C

2XSML1

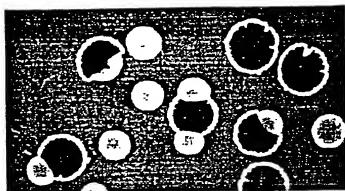
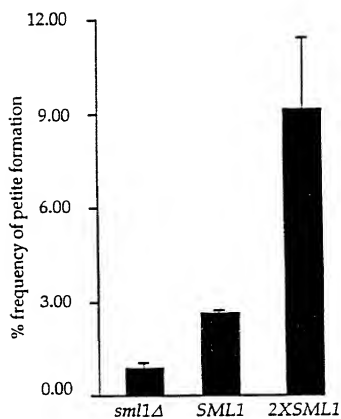


FIG. 3D



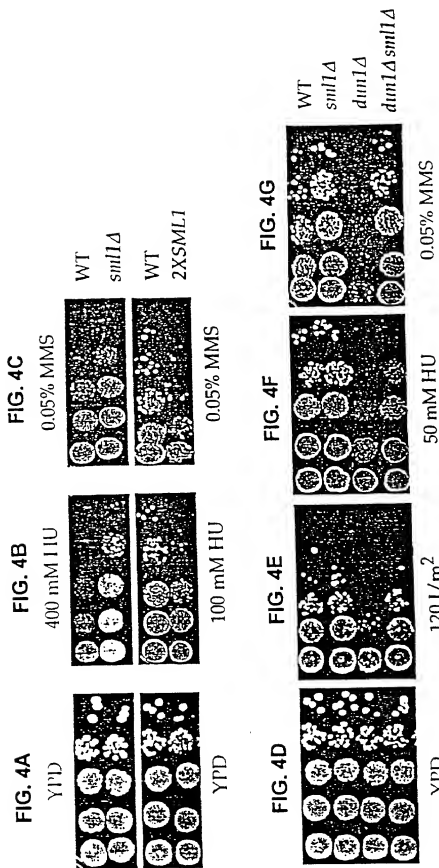


FIG. 5A
Wild-type

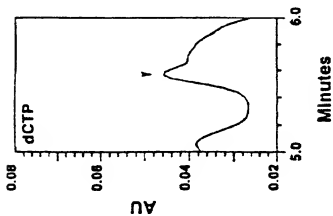


FIG. 5B

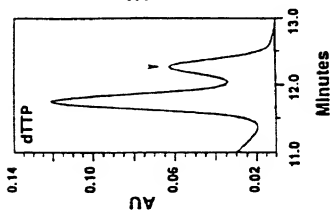


FIG. 5C

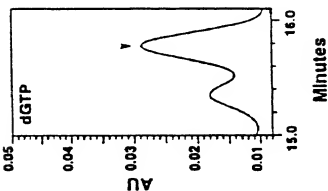
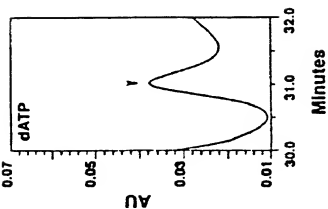


FIG. 5D



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sm11Δ

FIG. 5E

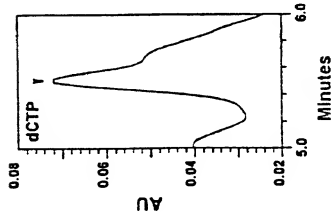


FIG. 5F

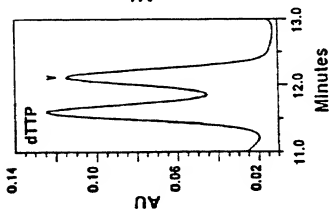


FIG. 5G

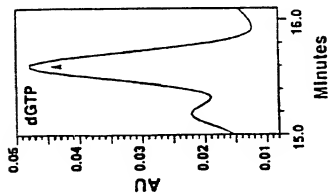


FIG. 5H

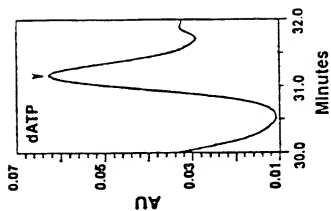


FIG. 5I

	dCTP	dTTP	dGTP	dATP
wild-type	386	869	171	327
<i>smi1Δ</i>	1071	2118	414	855
fold increase	2.6	2.4	2.4	2.6

Deoxyribonucleotide levels are shown as pmol/10⁹ cells

FIG. 5J

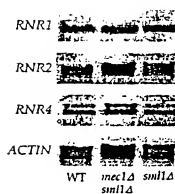


FIG. 5K

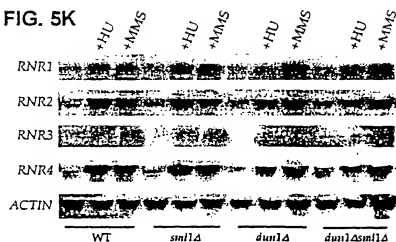


FIG. 6

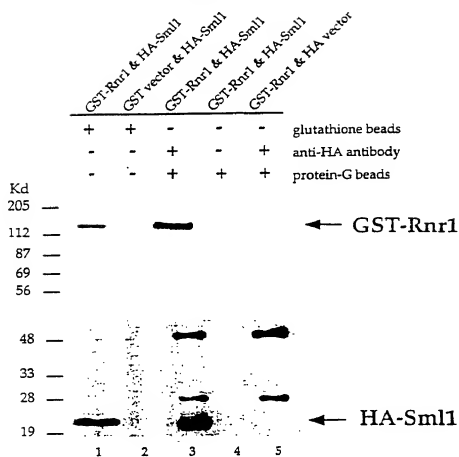
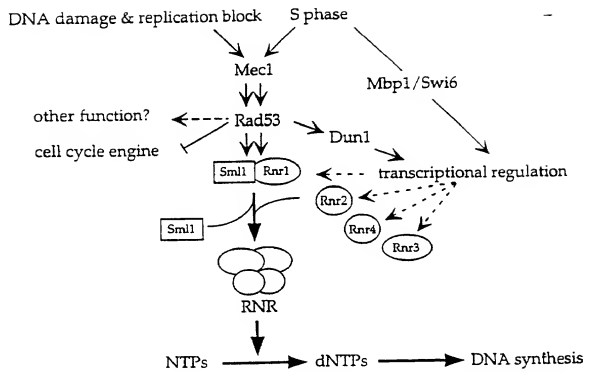


FIG. 7



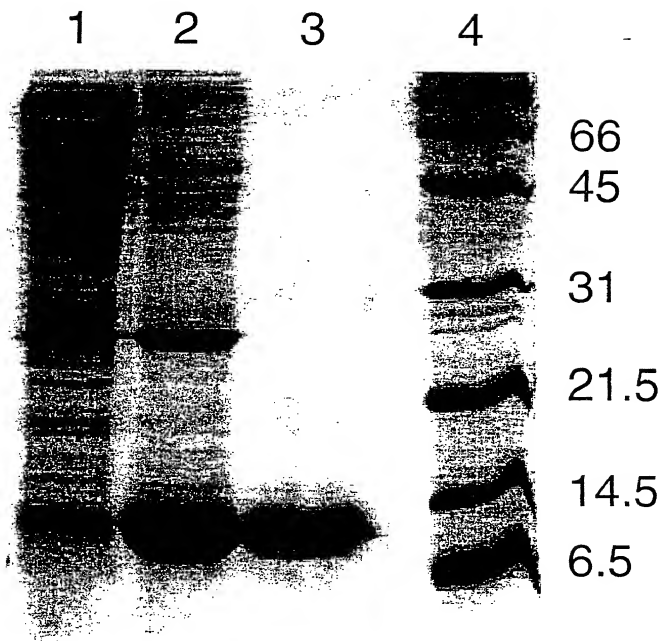


FIGURE 8

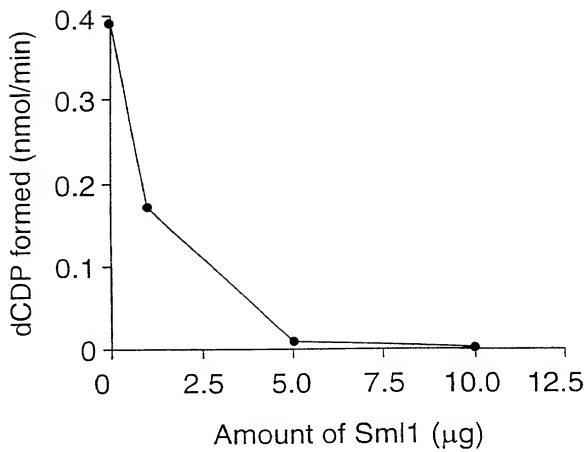


FIGURE 9

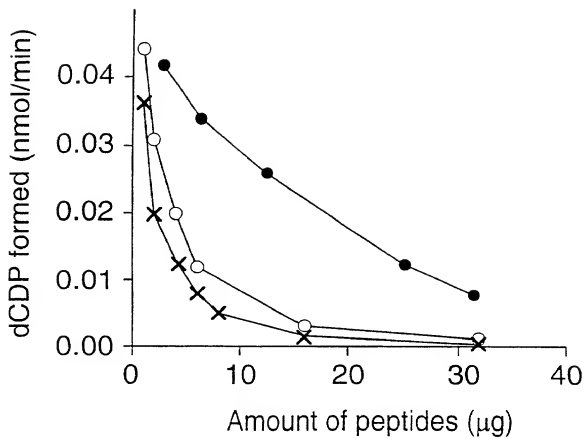


FIGURE 10

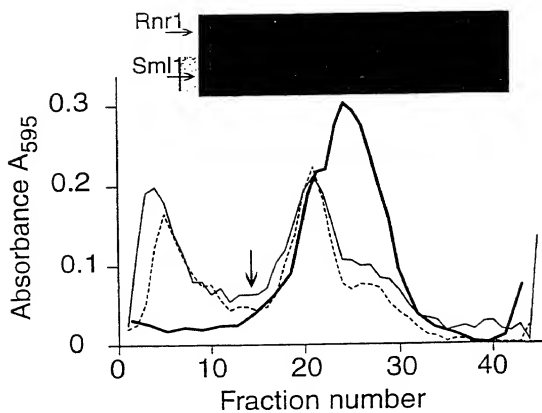


FIGURE 11

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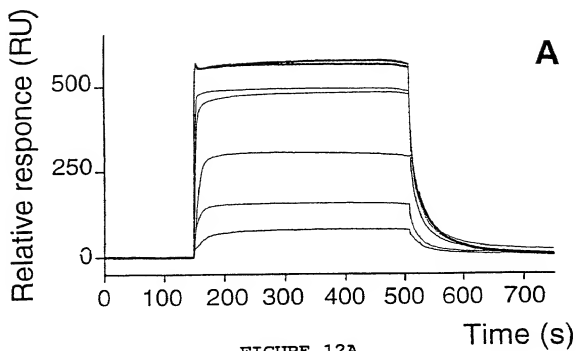


FIGURE 12A

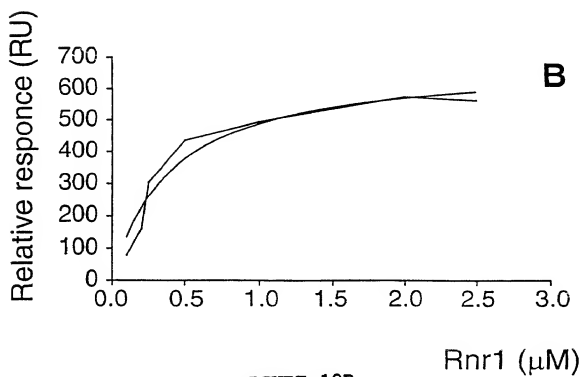


FIGURE 12B

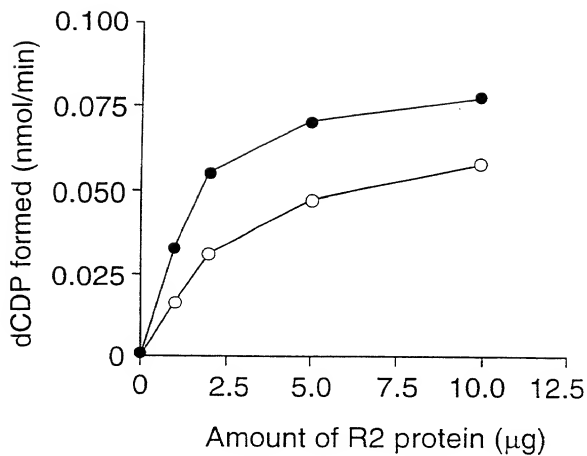


FIGURE 13

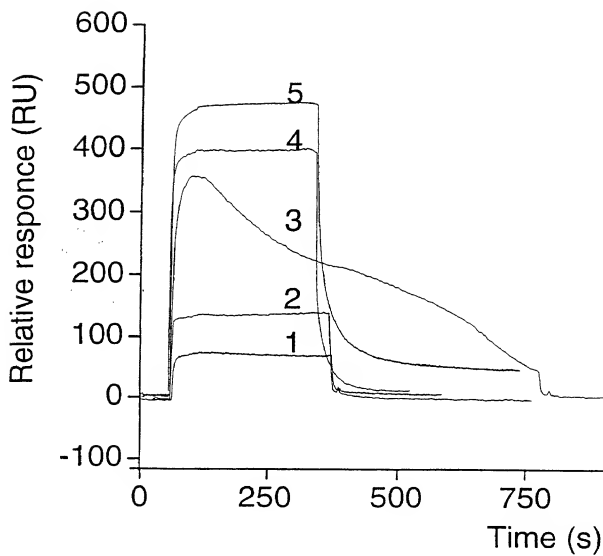


FIGURE 14